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TECHNICAL MANUAL

COMMUNICATIONS - ELECTRONICS (C - E)

DEPOT SUPPORT

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SECTION I

GENERAL

1-1 PURPOSE.

This technical order (TO) sets up the depot maintenance support program for ground Communications Electronic (C-E) systems, Space and Warning Systems, and equipment in operational use and logistically supported by Air Force Material Command (AFMC), Air Intelligence Agency (AIA) and Air Force Technical Applications Center (AFTAC).

1-2 APPLICABILITY.

This TO applies to all Air Force activities and non Air Force agencies logistically supported by the Air Force, such as Interservice Agencies, Security Assistance Program countries and Foreign Military Sales countries. It applies to ground C-E systems and equipment except for civil engineering, medical, vehicular, and data processing equipment and parts managed under the AF-300 series directives. The program planning and scheduling procedures contained here are mandatory for systems and equipment listed in table 2-1. Unlisted systems and equipment managed or supported by AIA and AFTAC maybe exempt at their option because of security classification, limited use, or small inventory consideration.

1-3 DEFINITION OF TERMS.

The following terms used in this technical order are defined here. For a more complete listing of terms and definitions, refer to TO 00-20-1, section VI, AFR 66-14, attachment 1. In some cases, the terms listed below are defined as to their application to the repair of C-E systems and equipment.

1-3.1 Air Force Cryptologic Support Center (AFCSC). The Air Intelligence Agency (AIA) activity which acts as a Technology Repair Center (TRC) for cryptologic equipment.

1-3.2 Air Force Technical Applications Center (AFTAC) Mission Equipment. Special Electronic Equipment (SEE) and Atmospheric Research Equipment (ARE) for which the AFTAC has SPM/IM responsibility.

1-3.3 Communications-Electronics (C-E) equipment. See AFP 700-25.

1-3.4 Cryptologic Equipment. Cryptographic and associated devices and special communications intercept equipment used in Air Force communication and electronic systems. Throughout this technical order, cryptologic equipment refers only to cryptologic devices used in communication-electronic systems and only to those items in national stock class (NSC) 5810 and 5811 and other NSC items with management aggregation codes CA, CI, and CS.

1-3.5 Cyclic Exchange. The exchange of an asset, scheduled for programmed depot maintenance (PDM), with a like serviceable asset prior to its removal from operation.

1-3.6 Depot Maintenance Schedule Review (DMSR). An annual review hosted by SM-ALC/LHA in coordination with the major commands. The purpose is to identify and validate the C-E programmed depot maintenance requirements and out year schedule for the next budget year and the next four fiscal out-years. The review will also identify how and where these requirements will be performed.

1-3.7 Depot Maintenance Interservice Support Agreement (DMISA). An agreement whereby one service accomplishes depot maintenance work for another service. These requirements are submitted via AFTO FORM 227.

1-3.8 Depot Management Activity. The term depot management activity used in this technical order applies to the SPM/IM of the Air Logistics Center (ALC), the AFCSC, or the AFTAC having the responsibility for the logistic support of assigned systems and equipment.

1-3.9 Emergency Maintenance Support. Those requirements of such an urgent nature that repair cannot be delayed. Equipment or systems are inoperative and active missions have failed.

1-3.10 Engineering Assistance. Assistance required to resolve structural, component, or system deficiencies that cannot be resolved through maintenance assistance. Engineering assistance may be in conjunction with or separate from maintenance assistance.

1-3.11 Equipment Specialist (ES). The person responsible for the logistics management of any given electronic system. Provides technical support, makes decisions on acquiring spares and the management and repair level. Develops work specifications for maintenance repair requirements, and serves as technical representative in negotiations with commands, IMs and other agencies.

1-3.12 Item Manager (IM). An individual responsible for computing the total requirements needed to support a given system. These requirements are met by purchase of new assets or cycling unserviceable assets thru repair at the TRC or a contractor plant.

1-3.13 Maintaining Activity. The activity responsible for performing direct (Organizational and Intermediate) maintenance.

1-3.14 Management of Items Subject to Repair (MISTR). The MISTR system forms the bridge between the computed repair

requirement in D041 and the actual induction/production of an end item. Adjustments can be made by the IMS when it is determined that more current data is available that may increase or decrease the repair requirement. The system then uses the final negotiated requirement to schedule work into maintenance on a biweekly basis. The priority of repair is based on customer need and mission item essentiality code (MIEC).

1-3.14 Mobile Depot Maintenance (MDM). Programmed depot maintenance or modification accomplished by field teams dispatched to the system or equipment location, or unprogrammed maintenance assistance which is beyond that normally available at the using or maintaining command. The requesting command will certify that the requested maintenance assistance is beyond the capability of the using or maintaining command.

1-3.15 MDM Field Team. MDM field team is a group of individuals assigned to perform depot maintenance modification or, a maintenance assistance at a location other than a depot facility. Field teams will be composed of personnel (Air Force, another service, contractor or combination thereof) possessing the necessary skills, special tools, and equipment to accomplish depot maintenance, modifications, or emergency/unprogrammed maintenance assistance at an operating or garrison location.

1-3.16 Out of Cycle Maintenance. Maintenance which may have been accomplished at another time or originally programmed but conditions dictate it be accomplished on other than the programmed date.

1-3.17 Production Management Specialist (PMS). An individual managing the asset shipment, prediction, funds allocation, program negotiation and management of workloads for C-E equipment.

1-3.18 Programmed Depot Maintenance (PDM). Depot modifications and maintenance normally scheduled on a cyclic basis.

1-3.19 Radome. A specialized protective covering normally utilized with electronic equipment antenna systems (TO 31-1-69, Section I).

1-3.20 Routine Maintenance Support. Those requirements which exist but do not fall under the category of urgent or emergency.

1-3.21 Source of Repair. This term applies to a maintenance activity which maybe an AFMC or ESC technology repair center, a contractor, an interservice or interagency support activity, or an established maintenance facility of a maintaining command.

1-3.22 System Program Manager (SPM). The activity assigned maintenance engineering and logistics management responsibility for a weapon or support system. This management responsibility also applies to installed and support items that are peculiar to the system.

1-3.23 Technical Assistance. The providing of advice and assistance pertaining to installation, operation and maintenance of equipment.

1-3.24 Technology Repair Center (TRC). A functional entity with an organic source of repair capability which accomplishes indirect maintenance on a specific group of items.

1-3.25 Unprogrammed Depot Maintenance. Depot maintenance requirements that could not be forecasted or programmed.

1-3.26 Urgent Maintenance Support. Requirements which are unexpected in nature and could not be foreseen. The main difference between this requirement and an emergency is response time. Although the equipment is not inoperative, a mission impacting problem exists that must be resolved in a timely manner.

1-3.27 1155 Technical Operations Division (AFTAC). The activity which performs depot maintenance and maintenance engineering functions for AFTAC mission equipment.

1-3.28 Centralized Repair Activity (CRA) see AFR 65-1. A repair facility established at a

forward location to perform "off equipment" maintenance on specified equipment or systems. CRAs are established normally to support a geographical region to improve timeliness of repair actions. Centralizing specialized test equipment and repair facilities at CRAs may be the most economical maintenance concept. When established, CRAs assume some depot workload.

1-4 POLICY.

AFR 66-14 sets up general policy and objectives for the Air Force equipment maintenance program. Many maintenance concepts are necessary for successful logistics support of C-E systems and equipment due to multicommand usage, security classification, operational environment, and economic considerations. The following statements give specific policy for depot maintenance support of ground CE systems and equipment.

1-4.1 The object is to assure that the most reliable, timely and cost effective means of support are used to maintain C-E systems and equipment. The AIA, AFTAC or AFMC production management specialists are responsible for planning the depot maintenance program to assure logistic support of assigned equipment. Air Force depot maintenance resources include both TRC and mobile activities which have been named sources of repair and are authorized to do depot maintenance in support of the SPM/IM.

1-4.2 Preventive and cyclic maintenance requirements are based on a five (5) year (upcoming year and four (4) out years) forecast. The program is reviewed annually at the Depot Maintenance Schedule Review (DMSR) by the depot management activity (appropriate ALC) in conjunction with the using and maintaining commands. As a result of the annual review, firm schedules and repair sources will be established for depot maintenance of C-E systems and equipment.

1-4.3 Unprogrammed depot maintenance and technical assistance certified as mission essential by the using or maintaining command C-E staff office, will be provided by the responsible depot management activity under the agreed terms with the requesting

command. Unprogrammed maintenance shall not be used to perform routine or cyclic depot maintenance.

1-4.4 Depot maintenance programs and plans must be set up to support centralized repair activities (CRAs) when established by MAJCOMs in accordance with AFR 65-1.

1-5 FORMS.

The forms referenced in this technical order are exempt from Reports Control Symbol (RCS) requirements in accordance with AFR 178-7.

1-6 RESPONSIBILITIES.

1-6.1 HQ USAF/LGM/Directorate of Maintenance Engineering and Supply will:

1-6.1.1 Set up policy and assign command and activity responsibilities for depot maintenance support of ground C-E systems and equipment.

1-6.1.2 Review and approve C-E systems and equipment to be indefinitely supported by contract.

1-6.1.3 Review and approve all plans for duplication or development of industrial facilities.

1-6.2 Air Force Materiel Command (AFMC), for designated C-E systems and equipment, Air Intelligence Agency, for cryptologic equipment, and AFTAC, for designated mission equipment, will:

1-6.2.1 Develop wholesale logistics support concepts, programs, and plans to provide depot support during the operational life cycle of designated systems and equipment. With the exception of electronic security systems which are managed by San Antonio Air Logistics Center (SA-ALC/LDIA) within AFMC, Sacramento Air Logistics Center (SM-ALC) is prime for most C-E systems/equipment items and has lead responsibility for the C-E depot maintenance program and conducting the annual DMSR in coordination with other ALCs and major commands.

1-6.2.2 Through designated depot management activities:

1-6.2.2.1 Establish and maintain centralized system/item management for assigned ground C-E systems and equipment.

1-6.2.2.2 Establish and maintain a depot repair capability for mission essential equipment.

1-6.2.3 Develop, budget, fund, and contract with commercial or interservice facilities to accomplish those depot requirements which are not designated for Air Force organic maintenance support.

1-6.2.4 Provide unprogrammed depot maintenance and technical assistance to using and maintaining command activities on maintenance and modification programs when requested and determined to be essential or beyond the maintaining command capability.

1-6.2.5 Develop and maintain Mobile Depot Maintenance (MDM) organic and contract field teams to accomplish on site depot maintenance at operating locations when determined to be more responsive to the requirement and to be cost effective.

1-6.2.6 Determine the need and application of the Maintenance Data Collection (MDC) System, the Reliability Centered Maintenance Program (RCMP), and the Material Deficiency Reporting (MDR) System. In coordination with the using and maintaining commands.

1-6.2.7 Analyze data to find areas needing improvements to meet performance requirements, to reduce support costs, and to increase reliability and maintainability. When systems or equipment are exempt from the formal RCMP, conduct periodic reviews of the programmed maintenance inspections and requirements with the using and maintaining activities to assure that requirements are current and valid and to provide optimum support to the operational mission. These reviews are normally accomplished during the annual Depot Maintenance Schedule Review (DMSR), but maybe held separately by mutual agreement to resolve problems on specific systems or equipment. The general guidelines

of the RCMP should be used in conducting these reviews.

1-6.3 HQ Communications Systems Center (CSC) will:

1-6.3.1 Provide maintenance and technical assistance for copper core and fiber-optic cable, antenna systems, supporting command, control, communications, and computers (SC4), for those activities without an organic capability. Maintenance assistance is requested to correct deficiencies identified by the customer which exceed the capabilities of the MAJCOM. Personnel is the prime consideration in determining capability.

1-6.3.2 Provide engineering assistance to resolve Electromagnetic Interference (EMI) and Electromagnetic Radiation hazard (EMRH) problems.

1-6.4 Using commands will:

1-6.4.1 Establish and maintain an organic capability to accomplish direct maintenance on assigned C-E systems and equipment.

1-6.4.2 Budget, fund, procure, and contract for total maintenance support for those C-E systems and equipment which by concept have been designated to be maintained by contract (reference table 2-1) and identified as using command responsibility. Standardized equipment nomenclatures referenced in table 2-1 will be used. (Command Supported Equipment).

1-6.4.3 In conjunction with depot management activity, develop annual depot maintenance support requirements as outlined in section II of this technical order. The commands will provide representation at the annual DMSR.

1-6.4.4 Provide for total logistics support of commercial and nonstandard command procured equipment (including budgeting and funding for contract support, as required) (reference AFR 400-26).

1-6.4.5 Provide command and base level administrative, facility and logistics support of

depot field teams performing on-site maintenance or modification work. This will include providing a knowledgeable representative(s) to assist the on-site MDM team during pre-MDM inspection and MDM action. Support agreements are negotiated between the command or base and the depot management activity as required to provide for services such as MDM visits. As applicable, the support agreement will provide for:

1-6.4.5.1 Arrangement of housing and messing, as available, in accordance with AFR 90.9.

1-6.4.5.2 Vehicles and ground petroleum, oil, and lubricants (POL) for efficient movement of MDM personnel and supplies. When base resources are not available to provide vehicle support, the base or host command may budget and arrange for GSA or commercial rental vehicles.

1-6.4.5.3 Base administrative, engineering, maintenance, photography, contractual services and similar organic assistance.

1-6.4.5.4 Communications services needed to coordinate with other activities in solving problems that may arise during the MDM action.

1-6.4.5.5 Packing, creating, and shipping for C-E material that is removed or left over, according to instructions from the IM or PMS.

1-6.4.5.6 Trenching and, if needed, installing conduit where roadways or other hardened areas must be traversed, backfilled, resodded, or painted, and other normal civil engineering maintenance and repair work as specified in the survey document.

1-6.4.5.7 A secure storage area, and government vehicle parking area to prevent pilferage of tools and equipment during nonduty hours.

1-6.4.5.8 A supply account number, when needed so that MDM personnel can get replacement items.

1-6.4.5.9 Commands to order all support equipment items with the exception of EOQ D062 items.

1-6.5 MAJCOMS are responsible for advising subordinate units of the programed depot maintenance schedules as agreed at the DMSR.

1-6.6 Theater commanders will provide theater clearance concurrent with transmittal of request to the responsible depot activity (ALC, the AFCSC or AFTAC). Each theater clearance will contain the following statement: "The work will be accomplished under the provisions of TO 00-25-108 and such work will be accomplished under the surveillance of the requesting activity." The depot management activity will advise the theater commander of the names of personnel being sent and the mode of travel (reference Foreign Clearance Guide). This requirement is exempt from Reports Control Symbol (RCS) in accordance with AFR 178-7. For HQ PACAF: When a unit/activity requests on-site depot assistance, area clearance is implicitly granted so local commanders need not include this statement. However, HQ PACAF/SCLMM will make the required statement in their validation message.

1-6.7 Aerospace Guidance and Meteorology Center (AGMC) will provide scheduled and emergency testing, adjustment and repairing of cesium and rubidium beam standards used in C-E systems and equipment, both on and off site, as requested by and negotiated with the using and maintaining commands.

SECTION II

PROCEDURES

2-1 PURPOSE.

This section provides guidance for obtaining depot maintenance for C-E systems and equipment. While these procedures primarily address C-E systems and equipment they may be applicable to cryptologic and AFTAC mission equipment. In some instances specific procedures for cryptologic equipment are included. The exception to the following PDM guidelines are Tactical Air Control Systems (TACS) and Common and Unique Shelters. The scheduling of these workloads is accomplished by SM-ALC/LHZRD and LHYR respectively in conjunction with Maintenance Directorate personnel and presented to the operating commands for approval. AFTO FORMS 227, C-E DEPOT MAINTENANCE REQUIREMENTS AND SCHEDULE will not be accepted for this work load; therefore, the schedules will not be published in the work load agreements. Radome and shelter schedules will be provided during the annual DMSR (e.g., the FY91 schedules will be provided at the FY92 DMSR). Any follow on changes to the schedules will be coordinated with the concerned command.

2-2 PROGRAMMED DEPOT MAINTENANCE.

C-E systems and equipment requirements for depot maintenance are scheduled to be accomplished in a given fiscal year by contract, MDM or TRC. Schedule for development of the fiscal year PDM program is provided in figure 2-1.

2-2.1 Maintaining commands and the depot management activity will determine requirements by system, equipment or facility and will develop a recommended five year schedule. In the development of requirements, the PDM frequency listed in table 2-1 will be used for general planning purposes and are not mandatory. Careful consideration of all pertinent factors will be used in determining the requirements. Some of the factors to be used in making this judgment are:

2-2.1.1 Present equipment condition.

2-2.1.2 Anticipated future equipment condition as a result of anticipated equipment use, environment, and the maintaining activities maintenance capability.

2-2.1.3 Current equipment maintenance data and history.

2-2.1.4 System and equipment programmed life expectancy.

2-2.1.5 Experience

2-2.2 AFTO FORM 227 (figure 2-2) will be prepared by the using or maintaining organization using the instructions in figure 2-3. The prepared AFTO FORM 227 will be reviewed by the MAJCOM designated C-E maintenance staff office. The MAJCOM approved AFTO FORM 227 will be forwarded to the depot management activity by 10 Jun for the requirements in the budget year following the next year. The MAJCOM cover letter will certify that the AFTO FORMS 227 reflect projected mission essential depot support requirements in the fiscal quarter and year indicated. The subsequent four out-years will be submitted on general purpose sheets (see figure 2-4) and will contain information as outlined in figure 2-5. In addition, the following information is required in block 7 of the form:

2-2.2.1 Desired paint scheme. See TO 36-1-3 or TO 31-1-233 for authorized paint schemes. Use only the colors/codes listed in these TOs.

2-2.2.2 Indicate whether or not a joint inspection is desired. For a joint inspection of items being returned to TRC only, the unit will be required to fund an individual TDY to SM-ALC, usually for a 7-10 day stay, once the equipment is ready for delivery.

2-2.2.3 For shelter/van mounted electronic equipment, indicate if both the shelter/van and the electronics equipment require work.

2-2.3 Depot maintenance requirements will be sent to SM-ALC/LHAR.

2-2.4 For Air National Guard (ANG) maintaining activities, requirements are submitted by the Air National Guard Readiness Center (ANGRC). For those ANG activities with full-time operational mission, the ANG will coordinate the recommended PDM schedule with the major command having operational control.

2-2.5 These requirements, as submitted by the maintaining commands, will be consolidated into a fiscal year schedule by the depot management activity. Should a change to the submitted requirements be necessary, the change will be coordinated with the submitting activity.

2-3 DEPOT MAINTENANCE SCHEDULE REVIEW (DMSR).

The depot management activity will conduct a depot maintenance schedule review during October of each year. For C-E systems and equipment, the SM-ALC/LHAR will conduct a joint AFMC and supported MAJCOMS DMSR.

2-3.1 This review will:

2-3.1.1 Validate the PDM requirements for each quarter in the upcoming fiscal year. The approved PDM schedule includes the results of the maintaining command and depot management activity negotiations and those PDM requirements identified by the appropriate manager.

2-3.1.2 Identify the source of repair for work load accomplishment. Any changes to the source of repair will be in accordance with AFR 66-7.

2-3.1.3 Allow negotiations of maintenance requirements that, because of priority or resource considerations, could be deferred to the following year.

2-3.1.4 Result in recommendations for changes to table 2-1.

2-3.2 Using the five year plan submitted by the maintaining commands, the depot

management activity will provide, at the DMSR, the following:

2-3.2.1 A next budget year schedule for like systems or equipment.

2-3.2.2 Tentative approval of the schedule by the source of repair.

2-3.3 Eight months after DMSR, the depot management activity will have:

2-3.3.1 Formally assigned the total work load to the schedules with the identified sources of repair.

2-3.3.2 Developed and negotiated inter-service and interagency support agreements for appropriate work loads.

2-3.3.3 Prepared for distribution the negotiated PDM work load agreement and completed AFTO FORMS 227 for all concerned activities.

2-4 UNPROGRAMMED DEPOT MAINTENANCE.

A requirement for depot maintenance which develops after the submission of annual requirements is evaluated by the maintaining command to determine the urgency. The requirement is either:

2-4.1 Submitted as an emergency or urgent maintenance support requirement if the condition and mission impact warrant.

2-4.2 Submitted on AFTO FORM 227 as a revision to existing PDM requirements if priority justifies and it is not an emergency or urgent requirement.

2-4.3 Delayed and submitted as part of next year's requirements if it is not an emergency or urgent requirement and a revision to the existing program is not justified.

2-4.4 Submitted as an out of cycle requirement if not an emergency or urgent requirement and the provisions of 2-4.2 and 2-4.3 are not adequate.

DATE	MAJCOM/ILP/DOD ACTIVITIES	DEPOT MANAGEMENT ACTIVITY
NOT LATER THAN 10 JUN	<p>14 months prior to FY start determine requirements by facility/equipment and recommend FY Quarter Scheduling. Establish priority of needs. Submit upcoming year requirements on AFTO FORMS 227, and four (4) out year requirements on general purpose forms (see sample Fig 2-4) to:</p> <p>a. SM-ALC/LHAR (Original and 1 copy).</p>	Receive AFTO FORMS 227 plus Four Out-Year Requirements.
10 JUN to 15 SEP		Review AFTO FORMS 227 and identify tentative SOR for workload. Provide copies of AFTO FORMS 227 to MAJCOMS by 15 Jul. Prepare for annual DMSR.
14 OCT -10 NOV	<p>MAJCOM/DOD ACTIVITIES - Accept firm workload requirements as applicable during DMSR.</p> <p>ALL ACTIVITIES - Accept firm workload schedule by fiscal quarter Review Workload Agreement.</p>	<p>Conduct joint AFMC/Using Command Depot Maintenance Schedule Review (DMSR) as necessary to:</p> <p>a. Validate Using Command PDM by fiscal quarter.</p> <p>b. Identify SOR for MAJCOM requirements to either MDM (On-Site)TRC (Depot) contract or Depot Maintenance Inter-Service Support Agreement (DMISA).</p>

Figure 2-1. Schedule for Development of FY PDM Program (Sheet 1 of 3)

DATE	MAJCOM/ILP/DOD ACTIVITIES	DEPOT MANAGEMENT ACTIVITY
		<p>c. Identify requirements to be deferred to another fiscal year due to low priority and/or resource limitations.</p> <p>d. Review table 2-1 of TO 00-25-108 for additions/deletions.</p> <p>e. Review work load agreements.</p>
10 NOV to 15 APR	ALL ACTIVITIES - Coordinate with MAJCOMS on development of monthly MDM schedule.	Coordination
10 NOV to 31 DEC		<p>Finalize schedule by 31 DEC and take action to:</p> <p>(1) Budget for Contract/DMISA PDM and obtain support as necessary.</p> <p>(2) Budget for Organic PDM.</p> <p>(3) Finalize Negotiated SOR work load and develop Project Directives for Organic PDM.</p>
NLT 30 JAN		<p>1. Furnish to MAJCOMS the proposed AFTO FORMS 227 for the MDM Workload Schedule by fiscal quarter.</p>

Figure 2-1. Schedule for Development of FY PDM Program (Sheet 2 of 3)

DATE	MAJCOM/ILP/DOD ACTIVITIES	DEPOT MANAGEMENT ACTIVITY
NLT 30 JAN		<p>2. Submit Project Directives (TRC Work Load) for review and signatures.</p> <p>3. Furnish MAJCOMS a schedule of when the MDMs/PDMs will be accomplished.</p>
NLT 15 JUL		Publish finalized work load assignments/agreements between AFMC/Using Commands.
NLT 1 AUG		Notify each MAJCOM by message of those TRC tasks which will not be accomplished by the end of the current FY, give estimated completion dates and cite impact on new FY work load.
NLT 15 SEP	Each MAJCOM will review SM-ALC messages on current FY work load that will not be accomplished, and negotiate further any dates that are not acceptable.	
1 OCT	MAJCOM will provide validation by message documenting the changes into the new FY projected program requirements.	

Figure 2-1. Schedule for Development of FY PDM Program (Sheet 3 of 3)

2-5 MAINTENANCE ASSISTANCE.

NEW FISCAL YEAR PROGRAM IMPLEMENTATION

When determined by the maintaining command that requirements are beyond their capability, assistance can be obtained through SM-ALC. The assistance can either be engineering assistance to resolve equipment deficiencies; or technical information furnished to the site by telecon, message or printed matter or emergency/urgent depot support provided by a depot field team. When emergency/urgent depot support is furnished, it will be treated as a priority task and will be given the appropriate precedence related to other work loads. See figure 2-6 for requesting emergency/urgent depot support, or figure 2-7 for requesting engineering or technical assistance.

2-5.1 Except as follows the initial contact for either type of maintenance will be by DSN with follow-up FAX or E-MAIL through the maintaining command headquarters. The MAJCOM will first attempt to resolve the problem using MAJCOM resources.

2-5.1.1 For ANG on-site maintenance assistance requirements, or emergency depot support, approval must be obtained from ANGRC/SCOM before making any arrangements with SM-ALC/LHAR. ANG requirements for technical assistance, not requiring field team support, does not require prior NGB approval and direct contact with SM-ALC/LHAR is authorized.

2-5.1.2 Requests for depot support of cryptologic systems and equipment will be submitted to HQ AFMC/LGM.

2-5.1.3 Antennas, including open wire type and rotatable log periodic, will be submitted through the appropriate MAJCOMS to HQCSC/OSFS with info to SM-ALC/LHAR in accordance with paragraph 2-5.1.

2-5.1.4 For organically maintained base telephone cable and wire distribution systems including meteorological equipment cables and fiber optic cables, the contact for maintenance support will be the appropriate MAJCOMS to HQCSC/OSFS with info to SM-ALC/LHAR in accordance with MAJCOM directives.

2-5.1.5 Requests for depot support of electronic security equipment will be submitted to SA-ALC/LDI with a copy to ESD/AVJ.

2-5.2 The recipient of a request for maintenance support will inform the submitting command of the intended course of action within four hours of receipt of a telephone request and within twenty four hours of receipt of a message or letter request.

2-5.3 Emergency, urgent and unprogrammed maintenance support provided to accomplish direct (organizational or intermediate) maintenance will be the only designated requirement and should not exceed ninety days.

2-5.4 When contract support is required, the operating/maintaining activity is required to appoint a Contract Project Officer in accordance with AFR 66-11 and a Quality Assurance Representative (this may be the same individual). If it is known initially that on site contract support is needed, the initial request should include the names of the Contract Project Officer and Quality Assurance Representative. Otherwise, these names will need to be provided by follow-up message when the site is informed that contractor MDM is required.

2-5.5 Except for the cesium beam frequency standard, all maintenance assistance requests concerning Army-managed satellite communications equipment use the above procedure. Procedures for cesium beam frequency standard maintenance assistance are available in the appropriate logistics support plans.

2-5.5.1 When the maintenance assistance has been completed, the unit forwards a follow-up message to terminate the maintenance assistance actions formatted in accordance with TO 00-25-108, figure 2-6.

2-5.6 Emergency Depot Level Maintenance (EDLM) requests procedures:

2-5.6.1 Units call the wing for EDLM support.

2-5.6.2 The wing validates the request and the applicable contract and makes the call to the ALC. A current list of contracts and points of contact (POC) at each ALC are maintained at the wing.

2-5.6.3 The site follows up their request by message according to figure 2-6.

2-5.7 Requests for support of Radomes will be submitted thru MAJCOMS to SM-ALC/LHAR/LHZR/LHPDA. Reference TO 31-1-69.

2-5.8 Request for support of C-E Shelters will be submitted thru MAJCOMS to SM-ALC/LHAR/LHPDA/LHYR.

2-6 DEPOT MAINTENANCE WORK LOAD SCHEDULING.

2-6.1 The designated source of repair for a specific work load (PDM or emergency maintenance) will negotiate with the maintaining command to verify and finalize dates. When firm dates are established, the source of repair will provide them to the appropriate production manager.

2-6.2 Mobile depot maintenance (MDM) activities will also negotiate such things as pre-MDM inspection, site access, site security, downtime, special support equipment and material availability, transportation, quarters and messing for the field team, etc.

2-6.3 SM-ALC will identify in coordination with the using and maintaining commands (during the DMSR), those assets which can be provided depot maintenance employing the concept of cyclic exchange. Selection of those assets requiring exchange will be made by the using and maintaining commands.

2-6.4 The designated source of repair and using and maintaining commands will exert every reasonable effort to adhere to the PDM schedule. Should a change be required (or anticipated), all involved activities will be advised of the reason for change and the proposed new schedule.

2-7 MOBILE DEPOT MAINTENANCE.

When on-site MDM is designated, the requesting activity will assure all pertinent factors in paragraph 2-2.1 are considered. When MDM is necessary the following will be accomplished:

2-7.1 Pre-MDM Survey.

2-7.1.1 The Pre-MDM survey is normally conducted 3-6 months prior to MDM schedule. The survey will be accomplished in sufficient time prior to the MDM to allow for prepositioning of material and arrange for the needs of the MDM team.

2-7.1.2 The maintaining activity will provide a representative to participate in the survey and to coordinate support arrangements.

2-7.1.3 The survey will be documented on AFTO FORM 216, PRE-MOBILE DEPOT MAINTENANCE (MDM) SURVEY RECORD AND CERTIFICATION (figure 2-8). It will be completed in three copies by instructions in figure 2-9, and distributed as follows:

2-7.1.3.1 One copy of the AFTO FORM 216 and attachments will be provided to the maintaining activity chief of maintenance before departure.

2-7.1.3.2 The second copy of the AFTO FORM 216 and attachments will be provided to the MDM activity after maintenance and before departure.

2-7.1.3.3 The third copy will be provided to the depot management activity.

2-7.1.3.4 The maintaining activity and the MDM activity will each reproduce and distribute additional copies within and according to their respective command requirements, with one copy being sent to the Depot Production Management Specialist (PMS).

2-7.2 MDM Job Data Documentation. MDM field teams are responsible for providing inputs to the maintaining activity for entry into the Core Automated Maintenance System (CAMS) in accordance with TO 00-20-2 and AFM 66-279, unless exempted. The maintaining activity will document these inputs and enter the data into the CAMS system.

2-7.3 Inspection and Acceptance of MDM. Inspection and acceptance of MDM work will be the joint responsibility of the commander of the operating organization or designated representative and the MDM team chief. In accordance with TO 31-1-69, Section I, Paragraph 1-29 (i) -- A limited inspection must be conducted on Radomes.

2-7.3.1 The maintaining activity (or a designated representative) will determine the operational condition of the system or equipment as related to the original depot maintenance requirement and will accept the work.

2-7.3.2 Inspection and acceptance will be documented on AFTO FORM 217, CERTIFICATION OF MOBILE DEPOT MAINTENANCE ACCOMPLISHED (figure 2-10) in accordance with the instructions in figure 2-11 and distributed as follows:

2-7.3.2.1 One copy of the AFTO FORM 217 and attachments will be provided to the maintaining activity chief of maintenance after maintenance and before departure.

2-7.3.2.2 The second copy of the AFTO FORM 217 and attachments will be provided to the MDM activity.

2-7.3.2.3 The MDM activity will reproduce two copies of the AFTO FORM 217 and attachments and forward it to SM-ALC/LHAR.

2-7.3.2.4 The maintaining activity and the MDM activity will each reproduce and distribute additional copies within and according to their respective command requirements, with one copy being sent to the Production Management Specialist (PMS).

2-7.3.3 Exceptions identified on the AFTO FORM 217 will be corrected expeditiously by the responsible activity (as determined before the AFTO FORM 217 is finalized). Status on such items will be documented as corrected or, if not corrected, documentation will be at least quarterly. Status documentation will receive the same distribution as the AFTO FORM 217.

2-8 INVENTORY AND SHIPPING.

Requirements for inventory cyclic exchange assets and mobile and tactical equipment are contained in TO 00-35D-2. Shipping will be in accordance with TO 00-85-38 and AFM 67-1 reparable evacuation procedures. A C-E equipment location register will be maintained by the respective equipment specialist with cooperation from the using command's equipment monitor.

C-E DEPOT MAINTENANCE REQUIREMENTS AND SCHEDULE				
TO BE COMPLETED BY THE MAINTAINING COMMAND				
1. MAINTAINING COMMAND		2. PROGRAM FY	3. TYPE SUBMISSION <input type="checkbox"/> ANNUAL <input type="checkbox"/> REVISION	
4. PREPARING INDIVIDUAL				
a. NAME OF PREPARING INDIVIDUAL	b. GRADE	c. OFFICE SYMBOL	d. AUTOVON	PHONE
5. EQUIPMENT INFORMATION				
a. EQUIPMENT LOCATION (Base Name, State or Country)	b. SRAN	c. MAINTAINING UNIT	d. HOST COMMAND	
6. EQUIPMENT REQUIRING REPAIR				
a. NATIONAL STOCK NUMBER	b. TYPE NUMBER AND NAME	c. SRD	d. SERIAL NUMBER	
7. DESCRIPTION OF REQUIREMENTS, EQUIPMENT CONDITION, ETC.				
8. SIGNATURE (Chief of Maintenance)		ACTIVITY	PHONE	DATE
9. SIGNATURE (MAJCOM Validation)		ACTIVITY	PHONE	DATE
10. CEPAC	11. FACILITY CODE	12. REQUIRED SUPPORT DATE FISCAL QTR/YEAR		
II. TO BE COMPLETED BY THE RESPONSIBLE ALC				
13. RESPONSIBLE ALC ALC/MM	14. TYPE DM ACTION APPROVED	15. APPROVED SCHED DATE	16. DESIGNATED SOURCE OF REPAIR	
17. PROJECT DIRECTIVE NUMBER		18. DATE		
III. TO BE COMPLETED BY SOURCE OF REPAIR				
19. PRE MDM				
a. SCHEDULED START DATE	b. ESTIMATED COMPLETION DATE	c. ESTIMATED MAN-HOURS	d. WORK IDENTIFICATION NUMBER	
20. MDM				
a. SCHEDULED START DATE	b. ESTIMATED COMPLETION DATE	c. ESTIMATED MAN-HOURS		

AFTO FORM 227, MAR 87

PREVIOUS EDITION IS OBSOLETE

GPO: 1987-748-137/61512

Figure 2-2. AFTO FORM 227. C-E Depot Maintenance Requirements and Schedule

1. General:

a. The AFTO FORM 227 is for:

(1) The submission of depot maintenance support requirements (including DMISA) by maintaining activities or commands. (Exception: TACS/C-E MAJCOMS).

(2) The processing and distribution of these requirements, by the applicable SPM, to a source of repair.

(3) Acceptance and distribution of the initial negotiated work load schedule, by the source of repair.

b. All entries on the form must be typed or neatly and clearly printed. Assure all data on all copies is clearly and easily readable. Separate forms will be used for each item of equipment reported.

c. Data entered by each activity must be restricted to the blocks and columns specified for their use. Other spaces must be left blank for use by other processing activities.

2. Preparation of AFTO FORM 227:

a. Maintenance support requirements are entered and submitted by the maintaining activity. This activity will complete Section I. Section II will be completed by the responsible ALC. Section III will be completed by the source of repair.

b. Data entered in columns must correspond with all data in the heading blocks.

c. Instructions for the completion of specific blocks and columns.

Block 1. Enter symbol and name of the maintaining command.

Block 2. Indicate the fiscal year in which the requested maintenance support is programmed or will be needed (e.g., "94"). NOTE: AFTO FORMS 227 will be submitted for the upcoming year only. Out-year requirements will be submitted on a general purpose form (see sample figure 2-4).

Block 3. Requirements submitted in conjunction with each fiscal year's annual program will be identified as "annual" submissions. Subsequent additions or changes for the same fiscal year program will be identified as revisions.

Block 4a, b, c and d. Name of preparing individual should be the technician familiar with the system, or the work center supervisor.

Block 5a, b, c and d. Self-explanatory.

Block 6a, b & d. Self-explanatory. Block 6c. Enter the Standard Reporting Designator (SRD) code (These are located in CAM/REMIS (AFR 65-6)).

Figure 2-3. Instructions for Completion of AFTO FORM 227 (Sheet 1 of 2)

Block 7. Explain the request for equipment overhaul. Do not request depot maintenance solely because of elapsed time since last overhaul. Give details of system or equipment condition. Examples are: nature and scope of trouble being experienced, resource deficiencies preventing maintaining command accomplishment. State anticipated deterioration of equipment. Indicate if on-site or TRC depot maintenance is desired and if assistance in removing the item is needed. Indicate desired paint scheme per TO and whether a joint inspection is desired. Avoid ambiguous statements. Explain the situation as though you are convincing a layman you have a problem. The layman may be the one with the final authority for approving or disapproving this requirement. In addition, the following information is also required in block 7:

(1) Desired paint scheme. See TO 36-1-3 or TO 31-1-233 for authorized paint schemes. Use only the colors/codes listed in these TOs.

(2) Indicate whether or not a joint inspection is desired. For a joint inspection of items being returned to TRC only, the unit will be required to fund an individual TDY to SM-ALC. usually for a 7-10 day stay, once the equipment comes out of the shop.

(3) For shelter/van mounted electronic equipment, indicate if both the shelter /van and the electronic equipment require work. If just the shelter/van needs work, do not submit an AFTO FORM 227.

(4) Indicate if an exchange item is required by stating "exchange required", regardless if you request on-site or TRC maintenance. If depot doesn't have on-site capability, the item must be returned to depot for overhaul. If you can function without the item (usually a minimum of 90 days, but can be up to 270 days, depending on the system), then state "no exchange required".

Block 8. The Maintenance Chief of the issuing organization will sign in this block to signify the data is correct and to provide a point of contact for the ALC. Also include DSN and date.

Block 9. Signature, DSN and date indicating MAJCOM review and approval.

Block 10. Not Applicable.

Block 11. Not Applicable.

Block 12. Indicate the Required Support Date. (Consider that the item must be available - not deployed or on an exercise.)

Block 13 through 20 for ALC and SOR use only.

C-E PROJECTED REQUIREMENTS - 2 MAY 1992								
USAF/HQTAC/SCL, MSGT S. FRANCIS 726-4439								
NSN	SYSTEM EQUIP	S/N	LAST OVERHAUL	UNIT AND LOCATION	94	95	96	97
5820-00-942-2777	AN/TRC- 97A	11	SCD T1-83	128STCF QHLE				
		12	T1-82					M4
		13	M4-78		T1			
		14	T1-81				M2	
		15	M1-80			T3		
		16	M1-82					T1
5820-00-016-7802	AN/TRC- 87	21	SCD M3-83					
		22	M1-82					T4
		23	M1-79		T2			
		24	M2-81			T2		
		25	SCD T2-82					M2
		26	M3-79			T4		
5895-00-443-7414ZR	AN/TRC- 62	31	M2-80				T2	
		32	SCD T4-82				M1	
		33	T3-81					M3
		34	M4-81					T4
		35	M3-81				T4	
		36	T3-80			M3		

Figure 2-4. Four Out-Years Requirements Sample Format

-
1. The four out-years of the five year recommended schedule submitted by the maintaining commands by 10 June annually will contain the following:
 - a. The header will contain the name of preparing organization with office symbol, the individual's name, grade/rank, phone number and date of preparation.
 - b. The list of requirements will contain the NSN (if known), type of systems or equipment, serial number, date of last MDM/TRC overhaul and the FY and quarter PDM is due.
 - (1) The alpha letters M and T are used to indicate the type of PDM: M represents mobile depot maintenance while T represents Technology Repair Center.
 - (2) The numeric suffix indicates the quarter of the fiscal year.
 2. The four out-years schedule will be submitted on general purpose sheets. Figure 2-4 provides a sample and to simplify the layout, variations are authorized.
 3. Consolidate out-years before forwarding to ALC. (All like equipment together.)

Figure 2-5. Instructions for Preparing Four Out-Years Requirements

A MESSAGE, USING THIS FORMAT, WILL BE USED FOR EMERGENCY OR URGENT MAINTENANCE SUPPORT REQUESTS.

NOTE

Message will be from user to Major Command, with info to SM-ALC/LHAR/LHPDA.

SUBJECT: Request for "Emergency" or "On-site" Maintenance Support (show both equipment and location).

- (1) Identity of maintaining command requesting support.
- (2) Identity of the equipment by type number, name, National Stock Number (NSN) and serial number; or manufacturer's name and part number, if not type numbered.
- (3) Base where equipment is located.
- (4) Nature of the problem symptoms (operational and technical).
- (5) Corrective measures taken by the maintaining activity and results obtained.
- (6) Statement or estimate of maintenance actions required must be specified.
- (7) Material required to make repairs, if known and status. If required, is replacement on hand?
- (8) Security clearance, special clothing, etc., required or recommended for MDM team members.
- (9) Special tools, test equipment, heavy equipment, facilities, etc., known or thought to be necessary to make repairs, and a statement of availability of these items at or in the vicinity of the operating site.
- (10) Quantity and AFSC of maintaining activity personnel available to assist or augment the MDM team.
- (11) Availability of transportation, messing and billeting for the MDM or field team while at the operating site or in the vicinity.
- (12) Date that assistance is required. Statement of operational impact of the problem and urgency of repair.
- (13) Statement that the required maintenance exceeds the capability of the maintaining unit.
- (14) Date and time that initial request for maintenance support was made (if emergency request) and person contacted. See paragraph 2-5.1.

Figure 2-6. Format for Requesting Emergency/Urgent Support (Sheet 1 of 2)

(15) Name, grade, organization and DSN of individual making the initial telephone request (if emergency or urgent request).

(16) Name, grade, organization and DSN of individual for field team contact.

(17) Name, grade, organization and DSN of individual accepting the initial telephone request (if emergency or urgent request).

(18) For contract support only: Name, grade DSN of individual named as Project Officer.

(19) For contract support only: Name, grade and DSN of individual named as Quality Assurance Representative.

NOTE

Validation: The Major Command or designated subordinate must send a message to SM-ALC LHAR/LHPDA confirming the units need for support.

NOTE

Message will be from user to major command with info to SM-ALC/LHAR.

SUBJECT: Request for Engineering or Technical Assistance. (Show both, equipment and location).

- (1) Identity of maintaining command request support.
- (2) Identity of the equipment by type number, name, National Stock Number (NSN) and serial number; or manufacturer's name and part number, if not type numbered.
- (3) Name and location (state or country) of base where equipment is located.
- (4) Nature of the problem.
- (5) Actions taken by the maintaining activity and results.
- (6) Statement or estimate of assistance required.
- (7) Date that assistance is required.
- (8) Statement that the requirement exceeds the capability of the maintaining unit.
- (9) Date and time that initial telephone request for technical assistance was made (if emergency request).
- (10) Name, grade, organization, and DSN of individual making initial telephone request.
- (11) Name, grade, organization and DSN of individual accepting the initial telephone request.

NOTE

Request for siting problem should be sent to SM-ALC/LHAR from the validating MAJCOM. Requests for engineering assistance to investigate Electromagnetic Interference (EMI) or Electromagnetic Radiation Hazard (EMRH) problems should be sent to 1839 EIG/EE, Keesler AFB MS 39534-6348, with info to SM-ALC/LHAR.

Figure 2-7. Format for Requesting Engineering & Technical Assistance

PRE-MOBILE DEPOT MAINTENANCE (MDM) SURVEY RECORD AND CERTIFICATION		1. JOB IDENTIFICATION NO.	
2. INSTALLATION NAME AND LOCATION (City, State or Country)		3. TELEPHONE NUMBER	
4. OPERATING ORGANIZATION	5. NAME AND GRADE OF C-E OFFICER	6. TELEPHONE EXTENSION	
7. ITEM (Name, Type Number, FSC, Mfr. Name and Part Number, Serial Number)			
8a. SYSTEM	b. PROJECT	c. FACILITY NUMBER	
9. <input type="checkbox"/> MDM NOT REQUIRED <input type="checkbox"/> MDM REQUIRED AND TO BE PERFORMED BY MDM TEAM. ATTACH A CHECK LIST TO DESCRIBE THE MDM REQUIREMENT IN DETAIL, LISTING ALL OBSERVED DEFICIENCIES/FAULTS WHICH MUST BE CORRECTED, MODIFICATION REQUIREMENTS, ETC.			
10. <input type="checkbox"/> ORGANIZATIONAL AND INTERMEDIATE MAINTENANCE REQUIRED AND TO BE PERFORMED BY OPERATING ORGANIZATION <input type="checkbox"/> PRIOR TO DURING SCHEDULED MDM PERIOD. ALL ORGANIZATIONAL AND INTERMEDIATE LEVEL MAINTENANCE REQUIRED SHOULD BE IDENTIFIED IN DETAIL AND ATTACHED TO THIS FORM. IF NEGATIVE, ENTER "NONE REQUIRED"			
11. <input type="checkbox"/> ORGANIZATIONAL AND INTERMEDIATE MAINTENANCE REQUIRED AND TO BE ACCOMPLISHED BY AFCS MDM TEAM. COMMAND CERTIFICATION (AFR 66-14) WILL BE OBTAINED BY OPERATING ACTIVITY AND FURNISHED SW/IM NOT LATER THAN 2 WEEKS PRIOR TO MDM SCHEDULED DATE.			ESTIMATED M/H
12. REQUIRED FACILITIES, SERVICES, CAPABILITIES AND SPECIAL EQUIPMENT TO BE PROVIDED BY THE OPERATING ORGANIZATION/BASE AND AVAILABLE TO MDM TEAM.			
13. SPECIAL FACILITIES, SERVICES, CAPABILITIES AND EQUIPMENT TO BE PROVIDED BY THE MDM TEAM.			
14. <input type="checkbox"/> REAFFIRMATION THAT CURRENT MDM SCHEDULED DATE IS SUITABLE. <input type="checkbox"/> RESCHEDULE OF MDM REQUIRED			
15. PERSONNEL PARTICIPATING IN PRE-MDM SURVEY			
NAME	ACTIVITY	HOME BASE	TELEPHONE EXTENSION
16. PRE-MDM SURVEY		17. MAN-HOURS EXPENDED DURING MDM SURVEY*	
START DATE	COMPLETION DATE	MILITARY	CIVILIAN
			CTS
18. PRE-MDM DATA REVIEW AND CONCURRENCE			
MDM TEAM CHIEF (Signature)		OPERATING ORGANIZATION (Signature)	
NAME		NAME	
TITLE		TITLE	
ACTIVITY		ACTIVITY	
DATE		DATE	

AFTO FORM 216
JUL 81

PREVIOUS EDITION WILL BE USED

Figure 2-8. AFTO FORM 216, Pre-Mobile Depot Maintenance (MDM) Survey Record and Certification

1. General:

a. An AFTO FORM 216 will be initiated by the pre-MDM survey team chief for each C-E end item scheduled for pre-MDM survey.

b. Completion of each form is the primary responsibility of the pre-MDM survey team chief, based upon technical test performed, visual observation of the equipment, and other information/arrangements provided by and developed in conjunction with representatives of the maintaining activity.

c. If additional space is required to provide sufficient information, enter the words, "See Continuation Sheet," in the last available space of the applicable blocks and use a continuation sheet, identifying by number the block being continued. Staple continuation sheets to this form.

2. Preparation of AFTO FORM 216:

a. Blocks 1, 2, 3, 4, 5 and 8. Items will be filled out by the pre-MDM survey team chief as completely as possible and the forms furnished to the survey team chief prior to departure to accomplish the scheduled survey. Weapon, will be identified by name, nickname, numerical codes, etc.

b. Blocks 9, 10, and 11. Self-explanatory.

c. Block 12. Itemize the maintenance capabilities and facilities that the operating organization will provide to assist with the MDM. Include special equipment and services to be provided, such as cranes, riggers, welders, etc., and other support to be made available to the MDM team; i.e., housing, messing, and transportation.

d. Block 13. List special facilities, services, capabilities and equipment to be provided by the MDM as necessary.

e. Block 14. Check applicable block to, reaffirm compatibility of current MDM schedule date with organizational operations/shutdown periods, weather, special missions, availability of maintenance capabilities, resources, facilities, etc., or to designate if rescheduling of MDM date is required due to incompatibility and/or inability to meet present MDM scheduled date (Note: New schedule date, if required, must be negotiated between MDM activity and the operating activity and the production manager notified of the change.)

f. Block 15. List as many key participants, as possible within space provided.

g. Blocks 16 and 17. Self-explanatory.

h. Block 18. To be completed and signed by the pre-MDM team chief and the commander of the maintaining activity (or a designated representative).

Figure 2-9. Instructions for Completing AFTO FORM 216

CERTIFICATE OF MOBILE DEPOT MAINTENANCE ACCOMPLISHED				1. JOB IDENTIFICATION NO.	
2. INSTALLATION NAME AND LOCATION (City, state or country)				3. TELEPHONE NUMBER (include area code)	
4. OPERATING ORGANIZATION		5. NAME AND GRADE OF C-E OFFICER		6. TELEPHONE EXTENSION	
7. ITEM OF EQUIPMENT					
A. NAME		B. TYPE OR PART NO		C. QUANTITY	
D. FEDERAL STOCK CLASSIFICATION		E. MANUFACTURER		F. SERIAL NUMBER	
8. EQUIPMENT APPLICATION					
A. SYSTEM		B. PROJECT		C. FACILITY NUMBER	
9. ATTACHED CHECKLIST DATED _____ FOR AN _____ HAS BEEN COMPLETED AND ALL DEPOT LEVEL MAINTENANCE HAS BEEN COMPLETED WITH THE FOLLOWING EXCEPTIONS: (For completion of the work package)					
10. WORK ACCOMPLISHED (word picture) AND LIST OF NON-EXPENDABLE COMPONENTS REPLACED (Use additional sheet if required)					
11. GENERAL OPERATIONAL CONDITION OF EQUIPMENT UPON ARRIVAL AND BRIEF DESCRIPTION OF DEFICIENCIES				12. NUMBER OF O&M ACTIVITY PERSONNEL FURNISHED TO ASSIST THE MDM TEAM	
13. TOTAL MAN-HOURS EXPENDED			14. TOTAL MAN-HOURS DOCUMENTED ON MDC FORMS		
A. OPERATING AGENCY		B. MDM TEAM		C. OPERATING AGENCY	
				B. MDM TEAM	
15. MDM QUALITY ACCEPTANCE (Name, Title, Signature and Activity of Quality Control Inspector)					
16. PROBLEMS ENCOUNTERED DURING MOBILE DEPOT MAINTENANCE					
17. SCHEDULED DATE OF MDM		18. ACTUAL STARTING DATE OF MDM		19. SCHEDULED COMPLETION DATE OF MDM	
20. ACTUAL COMPLETION DATE OF MDM					
21. MDM DATA REVIEWED, CONCURRENCE, CERTIFICATION AND ACCEPTANCE OF WORK ACCOMPLISHED					
MDM TEAM CHIEF (Name, Title and activity)			MDM TEAM CHIEF (Signature)		DATE
OPERATING ORGANIZATION (Name, Title and activity)			OPERATING ORGANIZATION (Signature)		DATE

AFTO FORM 217
APR 74

PREVIOUS EDITION WILL BE USED.

AFI C-WPAFB-MAY 74 30035
U.S. GOVERNMENT PRINTING OFFICE 1987-7448-11-0000

Figure 2-10. AFTO FORM 217, Certificate of Mobile Depot Maintenance Accomplished

1. General:

a. If practical the maintaining activity will provide typing support to enter the data, otherwise, it will be handwritten legibly in ink by the MDM Team Chief. Distribute one copy to the production manager who directed or authorized the MDM.

b. When blocks on the form do not provide sufficient space, use a continuation sheet. Continuation pages will be identified by placing the job identification number (corresponding to Block No. 1) in the upper right corner. Data continued on the page will be identified to the block number being continued. Continuation pages will be numbered consecutively in the lower right corner and stapled to the back of the AFTO FORM.

c. The MDM Team Chief is responsible for the entry of data in Blocks 1-13, 16-20 and the respective signature block. The maintaining activity commander or designated representative is responsible for data in Blocks 14, 15 and the respective signature block.

2. Preparation of AFTO FORM 217:

a. Block 1. Enter number assigned by the MDM activity to identify the job.

b. Blocks 2 through 6. Pertains to the location of the equipment which was repaired and the activity responsible for its direct (O & I) maintenance.

c. Blocks 7 and 8. Self-explanatory.

d. Blocks 9. Enter the date of the checklist used (if any) and list as exceptions, all depot maintenance operations and tasks still required but postponed for accomplishment at a later date. Indicate why these were postponed and estimate when they will be accomplished. Indicate what activity will accomplish these postponed tasks. If lack of material is the reason of the delay, identify the material and indicate what activity will secure it.

e. Block 10. List only non-expendable components replaced.

f. Blocks 11 and 12. Self-explanatory.

g. Block 13. The MDM team chief will maintain a record of all direct man-hours expended by all team personnel (including augmenting personnel) by name, grade, AFSC and assigned activity/command. Block No. 13a. will reflect the direct man-hours expended by team members from the activity being supported (reference Block No. 4 and No. 12). Block No. 13b. will reflect total direct man-hours expended by all team members to date of acceptance and signature.

h. Block 14. The MDM team chief will provide this data to the maintaining activity representative for entry into the MDC system. Entry of man-hours in Block No. 14a. and b. by the maintaining activity/ command representative indicates that this is the manhour figures which have been or will be entered into the MDC system by this activity or command.

i. Block 15 through 21. Self-explanatory.

Figure 2-11. Instructions for Completing AFTO FORM 217

Table 2-1. Support Systems Equipment

System Equipment	Location of PDM	MDM/PDM Responsibility	Suggested PDM Frequency (See Note)	Command Responsible For funding
NOTE				
This table identifies most C E systems and equipment: (1) subject to programmed depot maintenance or equipment supported thru normal supply channels; (2) by the PDM concept where "T" represents TRC, "M" represents MDM on site, "S" represents normal supply channels and "C" represents equipment designated to be maintained indefinitely by contract maintenance; (3) by PDM frequency suggested for general planning purposes (long range planning of resource requirements and work loads). NOTE: Month given are not a mandatory period. The using commands may request more or less frequent PDM based on equipment condition, i.e.: More often when erratic or increased failures are occurring, wiring and insulation are brittle and cracked throughout, numerous deployments, extensive corrosion and climatic conditions have resulted in excessive wear and tear; but it may be less often when equipment remains reliable and in good condition; and (5) the command responsible for funding if other than AFMC. The nomenclatures listed below will be used for all PDM/MDM scheduling.				
AN/CPN-4	S	SM-ALC		
AN/CYQ-18		SM-ALC		
AN/FCC-32	T/M	SM-ALC	36	
AN/FMQ-7	M	SM-ALC		
AN/FPN-62	T/M	SM-ALC	60	
AN/FPN-16	M	SM-ALC	60	
		DET 25/LXWS		
AN/FPQ-21	T/M	SM-ALC	36	
AN/FPS-6	M	SM-ALC	60	
AN/FPS-16	C	SM-ALC		AFMC
AN/FPS-17	C	SM-ALC		AFMC/SPCOM
		DET 25/LXWS		
AN/FPS-19	C	SM-ALC		TAC
AN/FPS-30	C	SM-ALC		
AN/FPS-50	C	SM-ALC		
		DET 25/LXWS		
AN/FPS-65	M	SM-ALC	60	
AN/FPS-67	M	SM-ALC	36	
AN/FPS-77	T/M	SM-ALC	36	
AN/FPS-79	C	SM-ALC		AFMC/SPCOM
		DET 25/LXWS		
AN-FPS-85	C	SM-ALC		
		DET 25/LXWS		
AN/FPS-90	M	SM-ALC	60	
AN/FPS-91A	M	SM-ALC	60	

Table 2-1. Support Systems Equipment (CONT)

System Equipment	Location of PDM	MDM/PDM Responsibility	Suggested PDM Frequency (See Note)	Command Responsible For funding
AN/FPS-92	C	SM-ALC	60	ARMY
AN/FPS-93A	M	DET 25/LXWS SM-ALC		
AN/FPS-108	C	SM-ALC		
AN/FPS-115/123	C	DET 25/LXWS	60	
		SM-ALC		
		DET 25/LXWS		
AN/FPS-116	M	SM-ALC	60	
AN/FPS-117	C	SM-ALC		
AN/FRA-90	T/M	SM-ALC	36	
AN/FRC-19B	M	SM-ALC	36	
AN/FRC-39	T/M	SM-ALC	36	
AN/FRC-56	T/M	SM-ALC	36	
AN/FRC-96	T/M	SM-ALC	36	
AN/FRC-97	T/M	SM-ALC	36	
AN/FRC-109	S/M	SM-ALC	36	
(EXCEPT COMPONENTS)				
AN/FRC-109	C	SM-ALC		
(COMPONENTS)				
AN/FRC-117	C	SM-ALC		
AN/FRC-126	T/M	SM-ALC	36	
AN/FRC-127	T/M	SM-ALC	36	
(MW-503)				
AN/FRN-31	M	SM-ALC	36	
AN/FRN-34	M	SM-ALC	48	
AN/FRN-38	M	SM-ALC	48	
AN/FRN-43	C	SM-ALC		
AN/FRN-44	C	SM-ALC		
AN/FRN-45	C	SM-ALC		
AN/FRR-95	M	SM-ALC		
AN/FRR-98	M	SM-ALC		
AN/FSA-4	M	SM-ALC	36	
AN/FSC-78	C	SM-ALC		
AN/FSC-97	T	SM-ALC		
AN/FSC-111	C	SM-ALC		
AN/FSQ-114	C	SM-ALC		
AN/FSS-7	C	SET 25/LXWS SM-ALC		
(ELECTRICAL)				

Table 2-1. Support Systems Equipment (CONT)

System Equipment	Location of PDM	MDM/PDM Responsibility	Suggested PDM Frequency (See Note)	Command Responsible For funding
AN/FSS-7 (MECHANICAL)	M	SM-ALC	24	USAFE
AN/FTC-18	M	SM-ALC	36	
AN/FXQ-4	S/M	SM-ALC	36	
AN/FXQ-4A	S/M	SM-ALC		
AN/FYG-8	C	SM-ALC		
AN/FYH-2(V)	C	SM-ALC		
AN/FYK-10	C	SM-ALC		
AN/FYK-13	C	SM-ALC		
AN/GGC-47V (DSP)	C	SM-ALC		
AN/GGC-55	T/M	SM-ALC	36	
AN/GGC-57	T/M	SM-ALC	36	
AN/GGR-3	T/M	SM-ALC	36	
AN/GIC-21V (DSP)	C	SM-ALC		
AN/GKA-17(V)	M	SM-ALC	36	
AN/GKC-1V (DSP)	C	SM-ALC		
AN/GMD-2	T/M	SM-ALC	36	
AN/GPA-30	T	SM-ALC	60	
AN/GPA-73	C	SM-ALC		
AN/GPA-122	S	SM-ALC		
AN/GPA-124	S	SM-ALC		
AN/GPA-125	S	SM-ALC		
AN/GPA-127	S	SM-ALC		
AN/GPA-131 V1	S/M	SM-ALC	36	
AN/GPA-131 V2	S/M	SM-ALC	36	
AN/GPA-133	S/M	SM-ALC		
AN/GPN-12	M	SM-ALC	60	
AN/GPN-20	M	SM-ALC	60	
AN/GPN-22	T/M	SM-ALC	60	
AN/GPN-25	T/M	SM-ALC	36	
AN/GPA-39	S	SM-ALC		
AN/GPA-81	M	SM-ALC	48	
AN/GPA-83	M	SM-ALC	48	
AN/GPA-111	M	SM-ALC	48	
AN/GRA-115	T	SM-ALC	36	
AN/GRA-116	S	SM-ALC		

Table 2-1. Support Systems Equipment (CONT)

System Equipment	Location of PDM	MDM/PDM Responsibility	Suggested PDM Frequency (See Note)	Command Responsible For funding
AN/GRA-120	M	SM-ALC	48	ARMY
AN/GRC-155A (MRC-107)	T/M	SM-ALC	60	
AN/GRC-171	S	SM-ALC		
AN/GRC-175	S	SM-ALC		
AN/GRC-195	T/M	SM-ALC	36	
AN/GRC-203/D-BRITE	T/M	SM-ALC		
AN/GRC-206	S	SM-ALC		
AN/GRC-211	T/M	SM-ALC		
AN/GRC-212	T/M	SM-ALC		
AN/GRC-221	C	SM-ALC		
AN/GRN-19	M	SM-ALC	48	
AN/GRN-20	S/M	SM-ALC	48	
AN/GRN-25	T/M	SM-ALC	60	
AN/GRN-26	S	SM-ALC		
AN/GRN-27	T/M	SM-ALC	60	
AN/GRN-28	T/M	SM-ALC	60	
AN/GRN-29	T/M	SM-ALC	60	
AN/GRN-30	T/M	SM-ALC	60	
AN/GRN-31	T/M	SM-ALC	60	
AN/GRN-32	T/M	SM-ALC	60	
AN/GRR-23/24		SM-ALC		
AN/GRR-32 (URG651F)	T/M	SM-ALC	36	
AN/GRT-21/22	S	SM-ALC		
AN/GRT-31 (205J-1)		SM-ALC		
AN/GRT-32 (208U-3)	T/M	SM-ALC	36	
AN/GRT-33 (208U-10)	T/M	SM-ALC	36	
AN/GSA-91	S	SM-ALC		
AN/GSA-135	M	SM-ALC	60	
AN/GSC-28 (DSP)	C	SM-ALC		
AN/GSC-29	C	SM-ALC		
AN/GSC30	C	SM-ALC		
AN/GSC-37		SM-ALC		
AN/GSC-39	C	SM-ALC		

Table 2-1. Support Systems Equipment (CONT)

System Equipment	Location of PDM	MDM/PDM Responsibility	Suggested PDM Frequency (See Note)	Command Responsible For funding
AN/GSC-47	C	SM-ALC		ARMY ARMY
AN/GSC-49	C	SM-ALC		
AN/GSC-52	C	SM-ALC		
AN/GSH-34	S	SM-ALC		
AN/GSH-36	S			
AN/GSH-35	S			
56/57				
AN/GSN-12	T/M	SM-ALC	60	
AN/GSQ-120	T/M	SM-ALC		AFMC/SPCOM
AN/GSQ-170 (V)	M	(OO-ALC)	24	
AN/GSQ-175 (DSP)	C	SM-ALC		
AN/GSR36	S			
AN/GSS-34	T/M	SA-ALC		
AN/GSS-40	T/M	SA-ALC		
AN/GSS-41	T/M	SA-ALC		
AN/GSS-44	T/M	SA-ALC		
AN/GTC-28	T/M	SM-ALC	36	
AN/GXQ-15	M	SM-ALC	36	
AN/GYH-3 (DSP)	C	SM-ALC		
AN/GYH-5 (DSP)	C	SM-ALC		
AN/GYK-18 (v)	C	SM-ALC		
AN/GYK-21 (DSP)	C	SM-ALC		
AN/GYK-24 (DSP)	C	SM-ALC		
AN/GYQ-17 (DSP)	C	SM-ALC		
AN/GYQ-18 (DSP)	C	SM-ALC		
AN/GYQ-22 (DSP)	C	SM-ALC		
AN/MGC-2B	T	SM-ALC	60	
AN/MGC-6	T	SM-ALC	60	
AN/MLQ-T4	T	SM-ALC	60	
AN/MPN-13	T/M	SM-ALC	36	
AN/MPN-14	T/M	SM-ALC	60	
AN/MPQ-T3	T	SM-ALC	60	

Table 2-1. Support Systems Equipment (CONT)

System Equipment	Location of PDM	MDM/PDM Responsibility	Suggested PDM Frequency (See Note)	Command Responsible For funding
AN/MPS-T1	T	SM-ALC	60	ARMY
(COMPONENTS)				
OK-251	T	SM-ALC		
CONTROL VAN				
E-F BAND RT	T	SM-ALC	60	
UNIT				
G BAND RT	T	SM-ALC	60	
UNIT				
I BAND RT UNIT	T	SM-ALC	60	
AN/MPS-9	T/M	SM-ALC	60	
AN/MPS-11	T	SM-ALC	60	
AN/MPS-19	T/M	SM-ALC	60	
AN/MPX-7	T	SM-ALC	60	
AN/MRC-8	T/M	SM-ALC	60	
AN/MRC-85	T/M	SM-ALC	60	
AN/MRC-113	T	SM-ALC	60	
AN/MRC-116	T/M	SM-ALC	60	
AN/MRN-20A	M/S	SM-ALC	60	
AN/MSQ-46	C	SM-ALC		
AN/MSQ-T7B	T	SM-ALC	60	
AN/MSQ-T8A	T	SM-ALC	60	
AN/MSQ-T13	T	SM-ALC	60	
AN/MSQ-T43	T	SM-ALC	60	
AN/MSQ-T51	T	SM-ALC	60	
AN/MSQ-2	T/M	SM-ALC	60	
AN/MSQ-10	T	SM-ALC	36	
AN/MSQ-77	T/M	SM-ALC	48	
AN/MSR-T4	T	SM-ALC	60	
AN/MST-T1A	T	SM-ALC	60	
AN/MST-T1(V)	T/M	SM-ALC		
AN/PRC-GPB				
AN/PRC-128	C	SM-ALC		
AN/PRC-47	S	SM-ALC		
AN/PRC-66B	T	SM-ALC	60	
AN/PRC-77	S	SM-ALC		
AN/PRC-104	S	SM-ALC		
AN/PRC-113	S	SM-ALC		
AN/TCC-76	T	SM-ALC	36	
AN/TCC-77	T	SM-ALC	36	

Table 2-1. Support Systems Equipment (CONT)

System Equipment	Location of PDM	MDM/PDM Responsibility	Suggested PDM Frequency (See Note)	Command Responsible For funding
AN/TCM-604B/ TERRACOM				
AN/TGC-14V	S	SM-ALC		
AN/TGC-20	T/M	SM-ALC	36	
AN/TGC-26	T/M	SM-ALC	36	
AN/TGC-27	T/M	SM-ALC	36	
AN/TGC-28	T/M	SM-ALC	48	
AN/TMQ-11	T/M	SM-ALC		
AN/TMQ-28	T/M	SM-ALC	36	
AN/TPQ-43	T	SM-ALC	60	
AN/TPN-19	T/M	SM-ALC	36	
AN/TPS-39	T/M	SM-ALC	60	
AN/TPS-43E	T/M	SM-ALC	30	
AN/TPS-63	T/M	SM-ALC		
AN/TPS-75	T/M	SM-ALC		
AN/TPT-T1(V)	T	SM-ALC	60	
AN/TPS-68	T/M	SM-ALC	36	
AN/TPX-42	T/M	SM-ALC	60	
AN/TRC-61	T/M	SM-ALC	36	
AN/TRC-66A	S	SM-ALC		
AN/TRC-68	S/M	SM-ALC	36	
AN/TRC-87	T/M	SM-ALC	60	
AN/TRC-96	T/M	SM-ALC	36	
AN/TRC-97	T/M	SM-ALC	60	
AN/TRC-136	T/M	SM-ALC	36	
AN/TRC-139	C	SM-ALC		
(COMPONENTS)				
AN/TRC-144	T/M	SM-ALC	36	
AN/TRC-150	T/M	SM-ALC	36	
AN/TRC-170	T/M	SM-ALC		
AN/TRC-170 V2	T/M	SM-ALC		
AN/TRC-170 V3	T/M	SM-ALC		
AN/TRC-176	T/M	SM-ALC		
AN/TRN-26	T/M	SM-ALC	60	
AN/TRN-31	T/M	SM-ALC	48	
AN/TRN-41	T	SM-ALC	60	
AN/TRN-42	T/M	SM-ALC		
AN/TRQ-35	T/M	SM-ALC		
AN/TRQ-39		SM-ALC		

Table 2-1. Support Systems Equipment (CONT)

System Equipment	Location of PDM	MDM/PDM Responsibility	Suggested PDM Frequency (See Note)	Command Responsible For funding
AN/TSC-15	T/M	SM-ALC	48	ARMY
AN/TSC-53	T/M	SM-ALC	48	
AN/TSC-54	C	SM-ALC		
AN/TSC-57	T/M	SM-ALC	48	
AN/TSC-60	T/M	SM-ALC	48	
AN/TSC-62	T/M	SM-ALC	48	
AN/TSC-73	M	SM-ALC	60	
AN/TSC-85B	S	SM-ALC		
AN/TSC-93B	S	SM-ALC		
AN/TSC-94A	T	SM-ALC	36	ARMY
AN/TSC-100A	S	SM-ALC		
AN/TSC-129	C	SM-ALC		
AN/TSC-107	M	SM-ALC	60	
AN/TSM-109	T	SM-ALC	60	
AN/TSQ-61	T/M	SM-ALC	48	
AN/TSQ-91	T/M	SM-ALC	36	
CONSISTING OF OA-8446/RCA-46 OA-8447/RCA-47 OA-8450/RCA-50 TSA-34/RCA-34 TSA-35/RCA-35				
AN/TSQ-92	T/M	SM-ALC	36	ARMY
CONSISTING OF OA-8448/RCA-48 TSA-34/RCA-34 TSA-35/RCA-35				
AN/TSQ-93	T/M	SM-ALC	36	
CONSISTING OF OA-8451/RCA-51 OA-8452/RCA-52 OA-8456/RCA-56				
AN/TSQ-96	T/M	SM-ALC		
AN/TSQ-111	T/M	SM-ALC		
AN/TSQ-146	T/M	SM-ALC		
AN/TSW-7	T/M	SM-ALC	60	
AN/TTC-7	T/M	SM-ALC	36	
AN/TTC-22	T/M	SM-ALC	36	

Table 2-1. Support Systems Equipment (CONT)

System Equipment	Location of PDM	MDM/PDM Responsibility	Suggested PDM Frequency (See Note)	Command Responsible For funding
AN/TTC-30	T/M	SM-ALC	48	
AN/TTC-32	T/M	SM-ALC	36	
AN/TTC-39A	T/M	SM-ALC		
AN/TYC-10	T/M	SM-ALC	48	
AN/TYQ-23	T/M	SM-ALC		
AN/TYC-39		SM-ALC		
AN/TYQ-11V				
AN/TYQ-13V	T	SM-ALC (SHELTER ONLY)		
AN/TYQ-14V		SM-ALC (SHELTER ONLY)		
AN/UGC-88	M	SM-ALC	36	
AN/UGC-129	S	SM-ALC		
AN/UPA-35	S	SM-ALC		
AN/UPA-59	M	SM-ALC	60	
AN/UPQ-3	C	SM-ALC		
AN/UPX-6	S	SM-ALC		
AN/UPX-14	S	SM-ALC		
AN/UPX-21	S	SM-ALC		
AN/UPX-23	S	SM-ALC		
AN/URC-56C 492L (JACKPOT)	C	SM-ALC		
AN/URC-119	S	SM-ALC		
AN/URC-119(V)	S	SM-ALC		
AN/URN-5	T/M	SM-ALC	36	
AN/UYK-9	C	SM-ALC		
AN/VPQ-1 (TRTG)	T	SM-ALC	60	
427M	C	SM-ALC		
465L	C	SM-ALC		
474L (BMEWS)	C	SM-ALC DET 25/LXWS		
484L (SCOPE SAFE)	C	SM-ALC		
484N (CHARLIE SYSTEM)	C	SM-ALC		
493L (SECURE VOICE)	C	SM-ALC		

Table 2-1. Support Systems Equipment (CONT)

System Equipment	Location of PDM	MDM/PDM Responsibility	Suggested PDM Frequency (See Note)	Command Responsible For funding
496L (SPACE TRACK)	C	SM-ALC DET 25/LXWS		
498L (GREEN PINE)	C	SM-ALC		
A/E37G-1 (MOBILE)	C	SM-ALC		
A/E37G-1 (FIXED)	C	SM-ALC		
AFSCN/CUE ALPHA NET	C	SM-ALC		
DEB-CROSS CHANNEL MICROWAVE (RD-U4 RADIO)	C			
DISIDS (SWITCH & PERIPHERAL)	C	SM-ALC		
DMX-A3 MULTIPLEXER				
EIDOPHOR	C	SM-ALC		
GRAPHICS & SOUNDS	C	SM-ALC		
FLT DATA ENTRY		SM-ALC		
PRINTOUT EQ	C	SM-ALC		
EMATS	C	SM-ALC		
FOREIGN MFG EQUIP (JAPAN) (TROPO, MICRO-WAVE AND BROADBAND)	C	SM-ALC		PACAF
GROUND QRC (SEE TO 31-1-93)	C	SM-ALC		
LORAN D	C	SM-ALC		
NARS	C	SM-ALC		
IJCS-PAC	C	SM-ALC		
INTERBASE RADIOS	C	SM-ALC		OPERATING CMD

Table 2-1. Support Systems Equipment (CONT)

System Equipment	Location of PDM	MDM/PDM Responsibility	Suggested PDM Frequency (See Note)	Command Responsible For funding
NORAD ALERT WARNING SYS (NAWS)	C	SM-ALC		
RADIO MICRO LINK				
TELEVISION MICRO LINK				
TSSR-RT 1462	C	SM-ALC		
RADIO (TER-170)				
NORAD CHEYENNE MTN COMPLEX (NCMC)	C	SM-ALC		
OA-1163C	S	SM-ALC		
OA-2325A FPS	S/M	SM-ALC	60	
OE-361	S	SM-ALC		
OJ-314	T/M	SM-ALC	36	
OK-171	M	SM-ALC	60	
OK-172	M	SM-ALC	60	
RECORDER/REPRODUCER	C	SM-ALC		OPERATING CMD
RED ANALOG SWITCH	C	SM-ALC		AFLC/ARMY
SATELLITE TERMINAL EQUIP	C	SM-ALC		OPERATING CMD
S-517/G	T/M	SM-ALC	48	
TACSATCOM, (UHF, SHF, MODEMS)	C	SM-ALC		
WECO 7A & 7B	C	SM-ALC		
SOS				
302 KEY SYS	M	SM-ALC	48	
SHELTERS		SM-ALC/LHT		
RADOMES		SM-ALC/LHF		
MISC		SM-ALC/CSC		
ANTENNAS				
CABLES (TELEPHONE PLANT)		SM-ALC/CSC		

Table 2-1. Support Systems Equipment (CONT)

System Equipment	Location of PDM	MDM/PDM Responsibility	Suggested PDM Frequency (See Note)	Command Responsible For funding
WSR-88D	M	SM-ALC	24	
WSR-88D	M	SM-ALC	48	

SECTION III

CABLE, ANTENNA AND ANTENNA PMI PROGRAM

3-1 PURPOSE.

This section provides guidance for obtaining Computer Systems Center (CSC) maintenance and technical assistance for cable and antenna systems to activities that do not have organic maintenance capability.

3-1.1 The system supported by CSC are underground, buried, and aerial copper core and fiber-optic cables, antennas which are not an integral part of an end-item (e.g. radar or instrument landing system antennas).

3-1.2 The following systems are not supported by CSC:

3-1.2.1 Intersite (ICBM) cable systems. These systems are maintained IAW T.O. 00-25-108 by the missile system manager at Ogden Air Logistics Center (OO-ALC).

3-1.2.2 Antenna systems supporting contractor maintained facilities (e.g. Land Mobile Radio Systems).

3-1.2.3 Nonstandard, foreign-manufactured, nonsupportable, contractor maintained, or prototype systems.

3-1.2.4 Towers / poles, except those identified as integral parts of supported systems.

3-1.2.5 Base Intrusion Security Systems, except the copper core and fiber-optic communication cable portions.

3-1.3 Categories of Requirements:

3-1.3.1 Emergency. Those requirements of such an urgent nature that repair cannot be delayed. Those conditions which involve inoperative aircraft control and warning. ATCALS facilities, and vital communication links without backup. Equipment condition is Red.

3-1.3.2 Urgent. Requirements which are unexpected in nature and could not be foreseen. Although the condition is not red, a

serious mission degradation exists that must be resolved in a timely manner. Includes systems operating on backup.

3-1.3.3 Routine. Those requirements with minimal mission impact, but which are beyond the capability of the operating activity / MAJCOM.

3-1.4 Development, Submission, Validation, Certification, and Processing of Requirements. Requirements are normally identified at unit level. They are documented and submitted on AFTO FORM 229, MAINTENANCE REQUIREMENTS, VALIDATIONS, AND ACCOMPLISHMENT (figure 3-1).

Operating units will submit requirements to their MAJCOM focal point.. The MAJCOM will review, validate, and certify the requirement as necessary and beyond the capability of the MAJCOM. If validated, MAJCOM will then submit documentation to CSC / OSFS with an info copy to CSC / XPC. Non-validated requests will be returned to originators.

3-1.5 Responsibilities:

3-1.5.1 The Requesting unit will:

3-1.5.1.1 Submit message request (in AFTO FORM 229 format) to MAJCOM focal point with information copies to CSC / XPC / OSFS. Complete AFTO FORM 229 prior to team arrival. The date time group of the MAJCOM validation message will be cited in Section 1B.

3-1.5.1.2 Designate a unit representative to serve as contact point for the maintenance repair team.

3-1.5.1.3 Provide a travel and per diem fund cite for deployment of the maintenance repair team.

3-1.5.1.4 Provide the following support for the maintenance repair team:

3-1.5.1.4.1 Assistance in arranging housing and messing.

3-1.5.1.4.2 Vehicles and ground petroleum, oil, and lubricants (POL) for efficient movement of maintenance personnel and supplies. When base resources are not available to provide vehicle support, the base or host command budgets and arranges for GSA or commercial rental vehicles.

3-1.5.1.4.3 Communication services needed to coordinate with other activities in solving problems that may arise during the maintenance action.

3-1.5.1.4.4 Replacing /repairing conduit, backfilling, resodding, painting, or other normal civil engineering maintenance and repair work as required.

3-1.5.1.4.5 A secure storage area and government vehicle parking area to prevent pilferage of tools and equipment during nonduty hours.

3-1.5.1.5 Provide material as identified by the maintenance team.

3-1.5.1.6 Schedule necessary downtime, if required.

3-1.5.2 The Operating commands will:

3-1.5.2.1 Provide CSC / OSFS with a focal point for maintenance actions addressed in this regulation (to include a 24 hour contact point).

3-1.5.2.2 Review, validate, and certify the request from subordinate unit as necessary and beyond the capability of the command.

3-1.5.3 The CSC / OSFS will:

3-1.5.3.1 Working with the appropriate engineering activity, if required, determine whether future communications-computer system projects will affect the maintenance action. If approved CSC / OSFS will:

3-1.5.3.1.1 Assign a Workload Identification Number (WIN).

3-1.5.3.1.2 Establish a realistic schedule.

3-1.5.3.1.3 Assigns job responsibility to an EI unit.

3-1.5.3.2 If work will be accomplished under C-CS programmed project action, maintenance repair action will be disapproved.

3-1.6 Emergency Procedures. Complete mission failure of vital communication links require immediate action.

3-1.6.1 Validating MAJCOM will contact CSC by telephone, with priority message confirmation on the next duty day. Caller should ensure all information requested on AFTO FORM 229 is available.

3-1.6.2 Emergency maintenance will be limited to restoration of service only. If follow-on maintenance is required, the EI team chief will document this in Section IV of the AFTO FORM 229 and CSC / OSFS will assign an urgent/ routine maintenance WIN.

3-2 OUTSIDE PLANT CABLE MAINTENANCE REQUIREMENTS (CMR)

CMR will not be used in lieu of programming action (AF FORM 3215) for short notice requirements or for replacement actions that should have been programmed IAW AFR 700 series regulations. If CSC engineering and the EI team chief decide replacement is the proper maintenance action, only one for one, pair for pair replacement is authorized.

3-2.1 Engineering Change Requests/ Authorization (ECR / A)

3-2.1.1 ECR / A for in-progress cable maintenance or assistance may be used to improve maintainability of outside plant systems provided the cable pair count / operational circuit capability is not increased and additional buildings or sites are not serviced by this cable. Basically, if cable replacement occurs as a maintenance action, only a one for one change out is authorized. Future requirements will not be considered unless an approved CSRD has already been processed and a WIN assigned.

3-2.1.1.1 All or parts of approved programmed requirements may also be included in the maintenance action, when approved by the engineer and when such

actions are cost effective. The determination will be made by CSC / OSFS in coordination with the engineering activity.

3-2.1.1.2 Where it is cost effective to install a larger count replacement section for a bad cable section, the engineer will note on the ECR / A that the additional pairs are required by project (give the number and approximate installation date).

3-2.1.2 In cases where on-site cable maintenance personnel recommend minor changes in cable plant, replacement action may be continued as a maintenance task through the use of AF FORM 1146, Engineering Change Request / Authorization. This task is essentially a change to the base Communication-Computer System Installation Records (CSIR) and will not be used to circumvent AFR 700-3 programming actions.

3-2.1.2.1 Limited use of AF FORM 1146 for cable maintenance assistance actions is authorized IAW AFR 700-4.

3-2.1.2.2 The ECR / A will be initiated by the on-site team chief and will be submitted directly to CSC / OSFS. When submission is by message, provide an information copy to the appropriate EI engineer. The ECR / A must reflect supporting rationale when cost effectiveness is cited as the reason for replacement.

3-2.1.2.3 The maintaining activity is required to update the CSIR as a result of any changes generated by ECR / A action. The EI team chief will supply the required information to the requesting agency's chief of maintenance.

3-2.1.3 ECR / A required during emergency cable maintenance will be processed as above, except the required coordination may be accomplished telephonically with the appropriate engineer. Actions and formal documentation not essential to emergency job accomplishment will be followed up by message. Messages will be sent to the

appropriate EI team chief's unit.

3-2.2 Implementation and Reporting Requirements:

3-2.2.1 If repair is accomplished without ordering material, the team chief will:

3-2.2.1.1 Obtain the chief of maintenance or accepting official signature in Section VII, Block 2, of the AFTO FORM 229.

3-2.2.1.2 Provide one copy of the AFTO FORM 229 with attached updated CSIR to the customer.

3-2.2.1.3 Distribute completion documents to the responsible EI unit as specified in CSCR 700-17, Chapter 8.

3-2.2.2 If material must be procured, the team chief will:

3-2.2.2.1 Provide a list of material required to the customer.

3-2.2.2.2 Complete Section IV of AFTO FORM 229.

3-2.2.2.3 Write an informal Statement of Work (SOW) identifying the nature of the job on the AFTO FORM 229, Section IV, Block 6.

3-2.2.2.4 Ensure work order numbers are entered on AFTO FORM 229, if applicable. (This includes, but is not limited to, base civil engineering work orders, base communications unit job orders, etc.).

3-2.2.2.5 Obtain the chief of maintenance signature in Section IV, Block 8 of the AFTO FORM 229 indicating concurrence with proposed fix action. A copy of the form is to be left with the customer.

3-2.2.2.6 Distribute completed documents to the responsible EI unit as specified in CSCR 700-17, Chapter 8.

3-2.2.3 The responsible EI unit will submit one copy of AFTO FORM 229, with

attachments and appropriate documents, to CSC /OSFS for engineering review and action.

3-2.2.4 The team will be scheduled for follow-on maintenance when all material arrives on site and required host unit support is complete.

3-2.2.5 When follow-up maintenance is completed the team chief will:

3-2.2.5.1 Obtain the chief of maintenance or accepting official signature in Section VII, Block 2, of the AFTO FORM 229.

3-2.2.5.2 Provide one copy of the AFTO FORM 229 with attached updated CSIR to the customer.

3-2.2.5.3 Distribute completion documents to the responsible EI unit as specified in CSCR 700-17, Chapter 8.

3-3 ANTENNA MAINTENANCE

Antenna maintenance actions will not be requested or used as a substitute for programming replacement actions (AF FORM 3215) IAW applicable 700 series regulation.

3-3.1 Implementation and Reporting Requirements:

3-3.1.1 If repair is accomplished without ordering material, the team chief will:

3-3.1.1.1 Obtain the chief of maintenance or accepting official signature in Section VII, Block 2, of the AFTO FORM 229.

3-3.1.1.2 Provide one copy of the AFTO FORM 229 to the customer.

3-3.1.1.3 Distribute completion documents to the responsible EI unit as specified in CSCR 700-17, Chapter 8.

3-3.1.2 If material must be procured, the team chief will:

3-3.1.2.1 Provide a list of material required to the customer.

3-3.1.2.2 Complete Section IV of AFTO FORM 229.

3-3.1.2.3 Write an informal Statement of Work (SOW) identifying the nature of the job on the AFTO FORM 229, Section IV, Block 6.

3-3.1.2.4 Obtain the chief of maintenance signature in Section IV, Block 8 of the AFTO FORM 229 indicating concurrence with proposed fix action. A copy of the form is to be left with the unit.

3-3.1.2.5 Distribute completed documents to the responsible EI unit as specified in CSCR 700-17, Chapter 8.

3-3.1.3 The team will be scheduled for follow-on maintenance when all material arrives on site and required host unit support is complete.

3-3.1.4 When follow-up maintenance is completed the team chief will:

3-3.1.4.1 Obtain the chief of maintenance or accepting official signature in Section VII, Block 2, of the AFTO FORM 229.

3-3.1.4.2 Provide one copy of the AFTO FORM 229 to the customer.

3-3.1.4.3 Distribute completion documents to the responsible EI unit as specified in CSCR 700-17, Chapter 8.

3-4 ANTENNA PMI PROGRAM

This program applies to antennas and antenna supports not maintainable by O&M units (HF, VHF, UHF, Microwave, etc.), excluding real property towers as identified in AFR 87-5. Units having no organic capability (no AFSC 361XO assigned) are eligible for this program. Antennas which require no climbing are excluded (e.g., most RSU, antennas mounted on rails of control

towers, etc.). The purpose of this program is to consolidate and automate management of the antenna PMI program at CSC. This is done by gathering all of the antenna PMI data and establishing a management program within the WMS (current fiscal year plus a one (1) year projection).

3-4.1 Developing Requirements. Each MAJCOM having units which qualify for this program will consolidate their antenna PMI requirements and submit them to CSC / OSFS. PMI requirements need be submitted only once, then updated as changes occur via AFTO FORM 229. Requirements will be submitted as follows:

3-4.1.1 By antenna location (e.g. transmitter site, building number, command post, etc.), type, and owning unit.

3-4.1.2 When validated CSC / OSFS will :

3-4.1.2.1 Assign a WIN.

3-4.1.2.2 Develop the PMI schedule.

3-4.1.2.3 Assign and task an EI unit.

3-4.1.2.4 Provide a copy of the schedule to the MAJCOM.

3-4.1.2.5 Monitor PMI progress.

3-4.1.3 The customer will:

3-4.1.3.1 Provide technical orders and technical order work cards (PMI cards) for both antennas and unit owned towers.

3-4.1.3.2 Provide supply support for their antenna systems (cable, connectors, spare antennas, etc.).

3-4.1.3.3 Provide two (2) copies of CSIR for EI team use. (The maintaining unit is to forward updated prints to the supporting engineering activity when changes are made.)

3-4.1.3.4 Schedule required host base support in accordance with paragraph 3-1.5.1.4.

3-4.1.3.5 Assign a minimum of one technician to work with the PMI team.

3-4.1.3.6 Schedule necessary downtime.

3-4.1.3.7 Ensure requirements are kept current by resubmitting AFTO FORM 229 in accordance with paragraph 3-1.4. as changes occur (e.g. antennas added, deleted, etc.).

3-4.1.4 Each EI unit will:

3-4.1.4.1 Maintain a current listing of assigned PMIs, to include current copies of the AFTO FORM 229. PMI start dates should not be delayed more than 30 working days from the listing. CSC / OSFS will be advised by message when the PMI start will exceed this time frame. The message must include the reason for slippage and the earliest date the unit can accomplish the PMI.

3-4.1.4.2 Notify the customer a minimum of 15 working days prior to the scheduled PMI start date (with an information copy to CSC / OSFS).

3-4.1.4.3 Perform PMI as scheduled.

3-4.1.4.4 Identify host base support required (e.g., cranes, tools, test equipment, etc.).

3-4.1.4.5 Update the WMS as changes occur.

3-4.1.5 The EI team chief will:

3-4.1.5.1 Document the PMI in accordance with paragraph 3-4.2.

3-4.1.5.2 If required, update CSIR and provide them to the chief of maintenance.

3-4.1.5.3 Submit all forms in accordance with CSCR 700-17.

3-4.2 PMI Documentation.

3-4.2.1 If the antenna PMI does not require follow-on maintenance:

3-4.2.1.1 Complete AFTO FORM 229 in accordance with CSCR 700-17.

3-4.2.1.2 Upon receipt of the document at CSC / OSFS, the antenna PMI WIN is closed.

3-4.2.2 If follow-on maintenance is required, the team chief submits:

3-4.2.2.1 AFTO FORM 229 to close PMI.

3-4.2.2.2 AFCC FORM 379 (parts list to be ordered and tracked by the customer).

3-4.2.2.3 Informal Statement of Work. The statement of work is a word picture of required work. This should include Base Civil engineering work orders, Base Communications unit job orders, etc.

3-4.2.3 When all parts are received and host support completed the maintaining unit will determine whether to submit a maintenance assist request in accordance with Chapter 3 or wait for the next scheduled PMI to have parts installed, depending on mission impact.

MAINTENANCE REQUIREMENTS, VALIDATIONS, AND ACCOMPLISHMENT			
I			
1. TYPE OF REQUEST	2. MAINTAINING UNIT	3. LOCATION	4. NAME OF PERSON TO CONTACT/PHONE
5. DESCRIPTION OF PROBLEM (Attach current CE facility drawing record of the entire cable route and termination)			
6. LIST ATTACHED CSIRS			7. CEMPAC CODE
			8. FACILITY CODE
9. RESOURCES LOCALLY AVAILABLE		10. RESOURCES REQUIRED	
A. TECHNICIANS, SKILL LEVEL AND NUMBER	B. MATERIAL VEHICLE AND SPECIAL EQUIPMENT	A. TECHNICIANS, SKILL LEVEL AND NUMBER	B. MATERIAL VEHICLE AND SPECIAL EQUIPMENT
11. DATE ASSISTANCE REQUIRED	12. WILL AUGMENTATION SATISFY THE REQUIREMENT <input type="checkbox"/> YES <input type="checkbox"/> NO	13. SIGNATURE OF UNIT'S VALIDATION/APPROVING OFFICIAL	DATE
B. CERTIFICATION THAT REQUIREMENT IS BEYOND COMMAND DIVISION TOTAL CAPABILITY			
14. COMMAND FOCAL POINT	15. LOCATION	16. SIGNATURE OF UNIT'S VALIDATION/APPROVING OFFICIAL	DATE
II. CSC ENGINEERING REVIEW			
1. <input type="checkbox"/> PROCEED <input type="checkbox"/> DO NOT PROCEED (see remarks)	2. REVIEWER'S NAME	OFFICE SYMBOL	PHONE
3. REMARKS			
III. FOR CSC USE			
1. WIN	2. EST. START DATE OF TEAM PRE-SURVEY	3. EST. COMPLETION DATE OF TEAM PRE-SURVEY	4. EST. MANHOURS BY SKILL REQUIRED FOR SURVEY

AFTO FORM 229, SEP 93

Figure 3-1 AFTO FORM 229, Maintenance Requirements,
Validations and Accomplishment (Sheet 1 of 2)

IV FOR IMPLEMENTING UNIT'S USE			
1 INITIAL START DATE	2 INITIAL COMPLETION DATE	3. FOLLOW-ON MAINTENANCE REQUIRED <input type="checkbox"/> NO <input type="checkbox"/> YES (Attach SCW and LOM)	4. IF YES, INDICATE TEAM COMPLEMENT (by number and skill)
5 TOTAL MANHOURS EXPENDED BY SKILL		6 IF YES ESTIMATE MANHOURS BY SKILL	
7. ITEMS AND SERVICE REQUIRED FOR FOLLOW-ON MAINTENANCE			
8. TEAM CHIEF SIGNATURE			
DATE		9 CHIEF OF MAINTENANCE SIGNATURE	
DATE			
V FOR CSC USE IF FOLLOW-ON MAINTENANCE IS REQUIRED			
1. ESTIMATED START DATE FOR FOLLOW-ON MAINTENANCE		2. ESTIMATED COMPLETION DATE FOR FOLLOW-ON MAINTENANCE	
VI ENGINEERING REVIEW OF TEAM CHIEF FINDINGS			
1. <input type="checkbox"/> PROCEED <input type="checkbox"/> DO NOT PROCEED (see remarks)	2. REVIEWER'S NAME		OFFICE SYMBOL
PHONE			
3. REMARKS			
VII TEAM CERTIFICATION OF FOLLOW-ON MAINTENANCE COMPLETION			
1 START DATE	2 COMPLETION DATE	3 MANHOURS EXPENDED BY SKILLS	4 SIGNATURE
VIII MAINTAINING UNIT/COMMAND ACCEPTABLES			
1. NAME OF ACCEPTING OFFICIAL		DUTY TITLE	GRADE
2 SIGNATURE		DATE	
IX EXCEPTIONS (if none, so state)			

AFTO FORM 229, JUL 93 (Reverse)

Figure 3-1 AFTO FORM 229, Maintenance Requirements,
Validations and Accomplishment (Sheet 2 of 2)

1. General:

- a. The AFTO FORM 229 is submitted to obtain Communications System Center maintenance and technical assistance by activities that do not have an organic capability.
- b. All entries on the form must be typed or neatly and clearly printed. Assure all data on all copies is clearly and easily readable.
- c. Data entered by each activity must be restricted to the blocks and columns specified for their use. Other spaces must be left blank for use by other processing activities.
- d. The original copy of the form will be forwarded through all phases of use. Make copies for local use.

2. Preparation of AFTO FORM 229:

- a. Section I. This is a description of the problem and certification by the requester that this requirement is beyond their organic capability. Complete block as follows:

- (1) Blocks 1 through 4. Self-explanatory.

- (2) Block 5. Describe the problem in sufficient detail to enable the engineering activity to understand the problem. Describe what actions you have accomplished to correct the problem. Describe what else you feel should be accomplished to restore the cable / antenna / DCO to service. Enter your best estimate as to the man-hours required of the EI team and your personnel to restore service. Include mission impact statement.

- (3) Block 6. List the CSIR number of current drawings.

- (4) Block 7. Leave blank

- (5) Block 8. Leave blank.

- (6) Blocks 9A-B. Resources locally available to support work action.

- (7) Blocks 10A-B. If augmentation will satisfy the requirement, identify resources needed to correct the problem.

- (8) Blocks 11 through 13. Self-explanatory.

Figure 3-2 Instructions for Completing AFTO FORM 229 (Sheet 1 of 3)

b. Section IB. This is certification that the requirement is beyond the MAJCOM's total organic capability, (e.g., No other organic O&M activity can provide support to the requiring unit.)

(1) Block 14. Enter the office symbol of the MAJCOM focal point.

(2) Block 15. Self-explanatory

(3) Block 16. If the request was by message, include the validation message date time group

c. Section II. (To be completed by the CSC engineering review activity)

(1) Blocks 1 and 2. Self-explanatory.

(2) Block 3. List problem or programmed actions which will affect the maintenance action. Make recommendations as appropriate.

d. Section III. (To be completed by CSC)

(1) Block 1. Assign WIN.

(2) Block 2. Enter estimated month and year.

(3) Block 3. Enter estimated month and year.

(4) Block 4. Self-explanatory.

e. Section IV. (To be completed by the EI team chief)

(1) Blocks 1 through 5. Self-explanatory.

(2) Block 6. Provide estimated hours to return system to T.O. specifications.

(3) Block 7. In case of emergencies (cut cables, etc.), a quick fix may require additional material and work to restore the repaired cable to T.O. specifications. Prepare a statement of work and a list of materials.

f. Section V. Completed by CSC if follow-on maintenance is Required / Approved.

(1) Block 1. Based on estimated date material will be available on site and/or if required complete allied support.

(2) Block 2. Use estimated total man-hours provided by EI team chief.

Figure 3-2 Instructions for Completing AFTO FORM 229 (Sheet 2 of 3)

g. Section VI. Engineering review of team chief's findings.

(1) Blocks 1 and 2. Same as Section II

(2) Block 3. Enter results of the review of Statement of Work (SOW), List of Materials (LOM) and Communications-Computer Systems Installation Record (CSIR) requirements and provide recommendations / remarks, etc.

h. Section VII. (To be completed by the EI team chief)

(1) Block 1 through 4. Self-explanatory.

i. Section VIII. The signature in this block constitutes O&M certification that maintenance is completed and acceptable.

(1) Blocks 1 and 2. Self-explanatory.

j. Section IX. Self-explanatory.

Figure 3-2 Instructions for Completing AFTO FORM 229 (Sheet 3 of 3)

